

## Safety data sheet in pursuance of enactment (EG) No. 1907/2006 (REACH)

### 1 NAME OF SUBSTANCE RESPECTIVELY PREPARATION AN COMPANY NAME

1.1 Name of substance or preparation

Trade name: **BIOSATIVA**

Registry number of the ingredients: see 3.2.2

1.2 Use of the substance/the preparation (information about the product)

#### 1.2.1 Use of the substance/the preparation

Bioactive cleaning material concentrate with environmentally acceptable detergences to eliminate grease, oil and oily contaminations. For the simple and effective cleaning of devices, machines as well as work surfaces and floors. Also suitable for cleaning of filters and extractor hoods.

#### 1.2.2 Mode of operation

Emulsify because of a very low surface tension with strong contaminations.

#### 1.2.3 Supported Use

#### 1.2.4 Exposition scenario

Not necessary, because the product isn't obliged to be registered in pursuance of Regulation (EG) No. 1907/2006 on Registry, Evaluation, Authorisation and Restriction of Chemicals (REACH).

1.3 Name of the company

(Information about the manufacturer/the supplier)

#### 1.3.1 Manufacturer/ supplier

**Hagenuk Deutschland GmbH**

#### 1.3.2 Address

Im kleinen Bruch 7

D-76149 Karlsruhe

#### 1.3.3 Reference for technical information

Application technology Phone: +49 721 96148648, Fax: + 49 721 96148656)

#### 1.3.4 Phone / Fax / e-mail

Phone: +49 721 96148648, Fax: + 49 721 96148656, Mail: info@hagenuk.de

#### 1.3.5 Emergency reference/emergency phone

Nearest hospital or poison control centre (national): local dialling code + 1 92 40 e. g. poison control centre  
Centre for paediatrics of the Rheinische Friedrich-Wilhelms-Universität Bonn Adenauerallee 119, 53113 Bonn,  
phone +49 228 / 1 92 40

## 2 POSSIBLE DANGERS

### 2.1 Name of dangers

Not subject to marking. Please take notice of the security data sheet's information. The preparation isn't classified as dangerous in the sense of the directive 1999/45/EG. The product isn't obliged to be registered in pursuance of Regulation (EG) No.1907/2006 for Registry, Evaluation, Authorisation and Restriction of Chemicals (REACH). The product isn't governed by the dangerous substance enactment (GefStoffV) and the CLP (GHS).

#### 2.1.1 Classification – None

### 2.2 Specific hints of danger for human beings and environment

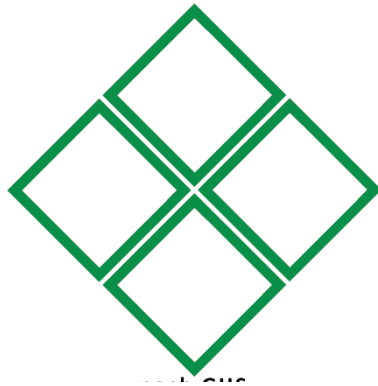
S 1/2 Store closed and beyond the reach of children.

S 25 Avoid eye contact. GHS P262

S 26 In case of eye contact deep clean with water immediately and contact a doctor. GHS

P305+P351+P338+P313

GHS: P305+P351+P338+P313, No H-hazards, NO danger or warning signs are necessary



## 3 COMPOSITION / INFORMATION ABOUT THE COMPONENTS

### 3.1 Chemical characterisation (substance) - reserved –

### 3.2 Chemical characterisation (preparation)

#### 3.2.1 Description

1-5% biogenic high polymer condensate consisting of:

- o proteins
- o polysaccharides
- o oleic acids

- less than 1% cocamidopropyl betaines

- distilled water

#### 3.2.2 Dangerous ingredients - reserved –

The preparation doesn't contain any dangerous ingredients.

Explanation of the R-sentences see paragraph 16.

Name REACH no.

CAS no.

EG no.

Concentration classification/identification remark Symbol R-sentences

#### 3.2.3 Additional hints

## 4 FIRST AID MEASURES

### 4.1 General hints

#### 4.2 After breathing

#### 4.3 After skin contact

#### 4.4 After eye contact

In case of eye contact deep clean with water immediately and contact a doctor.

#### 4.5 After swallowing

#### 4.6 Hints for the doctor

### 5 FIRE-FIGHTING PROCEDURES

#### 5.1 Suitable extinguishing agents

All extinguishing agents are suitable.

#### 5.2 Unsuitable extinguishing agents

5.3 Special endangerment by the substance or the product itself, its combustion products or arising gases - Unknown

#### 5.4 Special protective equipment in the case of fire fighting

#### 5.5 Additional hints

The product itself doesn't burn.

The product is to be applied for the explosion backup in the case of fuel spots.

### 6 MEASURES IN THE CASE OF UNINTENDED EXPOSITION

#### 6.1 Individual-related precautionary measures

#### 6.2 Environmental precautionary measures

Don't get it to the canalisation or waters at full strength.

#### 6.3 Cleaning procedure

Wash up or thin down with a lot of water.

#### 6.4 Additional hints

### 7 HANDLING AND STORAGE

#### 7.1 Handling

##### 7.1.1 Hints for secure dealing

With appropriate use no special measures are necessary. Harmless in accordance with the LMBG (Foodstuffs and Consumer Goods Law). (Tested by Fresenius in 2001). After cleaning wash up objects and production facilities with water radically.

##### 7.1.2 Technical measures

##### 7.1.3 Specific requirements or handling regulations

7.1.4 Fire-fighting and explosion protection hints The product itself doesn't burn. From the product itself doesn't emanate any danger of explosion. The product is to be applied for the explosion backup in the case of fuel spots.

##### 7.1.5 Additional information

#### 7.2 Storage

##### 7.2.1 Technical measures and storage conditions

Containers have to be closed tightly. Protect against frost. Protect against air/oxygen access (leads to a lower pH-value and thereby to the biological depletion).

#### 7.2.2 Packing materials

#### 7.2.3 Requirements for storerooms and containers

Storerooms have to be frost-proof.

#### 7.2.4 Information about storage of different materials nearby - None

#### 7.2.5 Storage class VCI No allocation

#### 7.2.6 Additional information about the storage conditions

#### 7.2.7 Specific use

### 8 THE EXPOSITION'S LIMITATION AND MONITORING/PERSONAL PROTECTION EQUIPMENT

#### 8.1 Limits for the work place's exposition and/or biological limits - Not applicable.

##### 8.1.1 Work place's limits (AGW) Germany

Specification:

Value:

Peak clipping:

##### 8.1.2 Work place's directive limits in the European Union

Specification:

Short time value (STEL):

Long time value (8h TWA):

Hint "skin":

##### 8.1.3 DNEL and PNEC values of the REACH relevant ingredients from chapter 3:

Hint: The mentioned DNELs are derivated provisorily.

EINECS no. name content (%)

DNEL (oral, acute)

DNEL (dermal, acute)

DNEL (inhalative, acute)

PNEC:

#### 8.2 The exposition's limitation and monitoring

##### 8.2.1 The exposition's limitation and monitoring at the work place

##### 8.2.2 Technical measure to avoid exposition

See chapter 7. No further measures are necessary.

#### 8.3 Personal protection equipment

##### 8.3.1 Breathe protection

##### 8.3.2 Hand protection

Suitable gloves:

##### 8.3.3 Eye protection

If necessary wear protective goggles.

##### 8.3.4 Body protection

#### 8.4 Information about work hygiene

#### 8.5 Limitation and monitoring of the environmental exposition (environmental protection measures)

See chapter 7. No further measures are necessary. Ground/water: don't get it into the canalisation or waters at full strength. Air:

## 8.6 The exposition's limitation and monitoring in the end-consumer's products

## 9 PHYSICAL AND CHEMICAL CHARACTERISTICS

### 9.1 Appearance

#### 9.1.1 Aggregate state – Liquid

#### 9.1.2 Colour Bright yellow to bright green

#### 9.1.3 Odour

### 9.2 Safety-relevant data

Parameter value unit method remark

Change of state

Boiling range about 100°C

Melting range n. a. °C

Flashpoint: inflammable °C

Ignition temperature: n. a. °C

Self inflammable point: n. a.

Fire providing characteristics: None

Danger of explosion: None

Inferior explosion limit: n. a. Vol %

Superior explosion limit n. a. Vol %

Steam pressure: n. b. hPa at 20 °C

Density: 1,1 – 1,12 g/cm<sup>3</sup>

Bulk density: n. b. kg/m<sup>3</sup>

Solubility: completely mixable in water g/l at 20 °C

pH-value: 10,8– 11,3

Distribution coefficient: n-octyl alcohol/water (Lg pOW)

Viscosity: 300 – 600 cSt (mm<sup>2</sup>/s) at 20 °C

Solvent separation test: n. a.

Solvent content: n. a. Vol %

### 9.3. Substance group relevant characteristics

### 9.4. Additional information

## 10 STABILITY AND REACTIVITY

### 10.1 Conditions to be avoided

Stable with the dealing and storage conditions described in chapter 7.

### 10.2 Substances to be avoided

Air/oxygen access leads to a lower pH-value and thereby to a biological depletion.

### 10.3 Dangerous decomposition products - None

## 11 TOXICOLOGICAL INFORMATION

### 11.1 Toxicokinetics, metabolism and distribution

### 11.2 Acute effects (toxicological tests)

#### 11.2.1 Acute Toxicity

Substance: biogenic high polymer

EINECS-no.:

LD50 (oral): > 2,000 mg/kg rat

LD50 (dermal): rabbit

LD50 (inhalative): rat

#### 11.2.2 Specific symptoms in animal experiments

After swallowing: After skin contact: After breathing: After eye contact:

### 11.3 Stimulation/etching effect Skin: none Eye: stimulation avoid eye contact Airways: none

### 11.4 Sensitisation

After skin contact: the biogenic high polymer doesn't lead to a barrier damage of the skin. No rise in the trans-epidermal loss of water.

Sub-acute oral:	no indication
Sub-acute dermal:	no indication
Sub-acute inhalative:	no indication
Sub-chronic oral:	no indication
Sub-chronic dermal:	no indication
Sub-chronic inhalative:	no indication
Chronic oral:	no indication
Chronic dermal:	no indication
Chronic inhalative:	no indication

### 11.5 Toxicity by repeated absorption (sub-acute to chronic)

### 11.6 Carcinogenicity, mutagenicity and reproduction toxicity

Carcinogenicity: no indication

Mutagenicity: no indication

Reproduction toxicity: no indication

#### 11.6.1 Summarising evaluation of the CMR-characteristics

No cancer-producing, mutagenic or preproduction damaging effects of the product are known. The ingredients of this preparation don't fulfil the criteria for the CMR categories 1 or 2.

### 11.7 Practical experiences

Monitorings relevant for classification: none

Other monitorings: none

### 11.8 Information about ingredients - None

### 11.9 General remarks

## 12 ENVIRONMENTAL REFERRING REFERENCES

### 12.1 Ecotoxicity

Acute toxicity:	Time	Species	Method	Evaluation
LC 50 > 100 mg/l	96h	fish, Leuciscusidus	OECD 203	Harmless for fish up to the concentration tested
EC 50 > 128 mg/l	48h	Daphnia, Daphnia magna	OECD 202	Harmless for water fleas up to the concentration tested
EC 50 2,800 mg/kg	72h	alga	OECD 201	Harmless for alga up to concentration tested.
EC 50 2,400 mg/kg	72h b	acterium		

### 12.2 Mobility

### 12.3 Known or expected distribution on environmental compartments

Surface tension 20 – 30 mN/m

### 12.4 Persistency and degradability

#### 12.4.1 Abiotic degradability

Hydrolytic instable at pH < 9,6

Half period value	Method	Evaluation	Remark
Seawater:			
Fresh water:			
Air:			
Ground:			

#### 12.4.2 Physio- and photochemical elimination

Elimination type

Half period time	Method	Evaluation	Remark
Ozonolysis:			
Oxidation:			
Photo-oxidation:			
De-chlorination:			
Photo-mineralisation:			

#### 12.4.3 Biodegradability

Degradation rate (%)	Time (d)	Method	Evaluation	Remark
> 80 & 3 days complete	15 days	OECD screening	biological easy to degrade	

### 12.5 Bioaccumulation

#### 12.5.1 Distribution coefficient n-octyl alcohol/water (log P O/W)

Value	Concentration	pH °C	Method	Evaluation	Remark
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#### 12.5.2 Bioconcentration factor (BCF)

Value	Species	Method	Evaluation	Remark
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### 12.5.3 Long-term ecotoxicity

Kind of toxicity	Effective dose/value	Species	Method	Evaluation	Remark
Sub-acute	NOEC	fish			
	NOEC	Daphnia			
	NOEC	bird			
Sub-chronic		fish			
Chronic		fish			

### 12.6 Result of the determination of the PBT-characteristics

In this preparation the ingredients don't meet the criteria for a classification in PBT or vPvB.

### 12.7 Other damaging effects

Precautious classification water hazard class (WHC) 1.

### 12.8 Summarising evaluation

## 13 HINTS TO WASTE DISPOSAL

### 13.1 Waste disposal substance/preparation

With proper use for general cleaning purpose the product will be disposed via the sewage (canalisation). The product can be washed away together with solvent waste and water. Recommendation

### 13.2 Disposal code according to the List of Wastes Regulation (AVV)

20 10 30 Cleaning material except of those which belong to 20 01 29

### 13.3 Packing

#### 13.3.1 Contaminated packing

If the contamination stems from the product, no dangerous measures according to §3 II List of Wastes Regulation result from the packing. Packing that isn't cleanable has to be disposed. Completely emptied packing can be supplied to further processing. 15 01 02 Plastics packing

#### 13.3.2 Cleaned packing

Packing that isn't contaminated and completely emptied can be supplied to further processing. Contaminated packing has to be emptied completely and be used again after an appropriate cleaning.

### 13.4 Additional hints

## 14 INFORMATION ABOUT TRANSPORT

No dangerous goods for the purpose of the transport regulations.

### 14.1 Inland transport (ADR/RID/GGVSE)

No dangerous goods for the purpose of the transport regulations.

#### 14.1.1 Class

#### 14.1.2 Danger number

#### 14.1.3 UN-number

#### 14.1.4 Classification code

#### 14.1.5 Name of goods

#### 14.1.6 Danger trigger

#### 14.1.7 Packing Packing group: Danger label: Limited quantity:

#### 14.1.8 Remark



**14.2 Inland shipping transport No dangerous goods for the purpose of the transport regulations.**

**14.2.1 Class**

**14.2.2 Danger number**

**14.2.3 UN-number**

**14.2.4 Classification code**

**14.2.5 Name of goods**

**14.2.6 Danger trigger**

**14.2.7. Packing**

Packing group:

Danger label:

**14.2.8 Remark**

### 14.3 Sea shipping transport (IMDG/GGVSee)

No dangerous goods for the purpose of the transport regulations.

#### 14.3.1 IMDG-Code

#### 14.3.2 EmS

#### 14.3.3 UN-number

#### 14.3.4 Marine pollutante

#### 14.3.5 Name of the goods

#### 14.3.6 Danger trigger

#### 14.3.7 Packing

Packing group:

Danger label:

#### 14.3.8 Remark

### 14.4 Air transport (ICAO-TI/IATA-DGR)

No dangerous goods for the purpose of the transport regulations.

#### 14.4.1 Class 14.4.2 UN-number

#### 14.4.3 Name of the goods

#### 14.4.4 Danger trigger

#### 14.4.5 Packing

Packing group:

Danger label:

#### 14.4.6 Remark

## 15 LEGAL REGULATION

### 15.1. Substance security judgement

For this substance no security judgement is necessary.

### 15.2 Classification according to EG-Directive

The product is not subject to marking according to the EG-Directive or the respective national law. The preparation isn't subject to marking according the directive 1999/45/EG respectively to annex VI of the directive 67/548/EWG.

#### 15.2.1 Code letter/s and danger sign/s of substance/preparation

#### 15.2.2 Danger relevant components for labelling

### CONTAINS

#### 15.2.3 R-sentences - Not applicable

#### 15.2.4 S-sentences

S 25 Avoid eye contact

GHS P262

S 26 In case of eye contact deep clean with water immediately and contact a doctor.

- S 2      GHS P305+P351+P338+P313 Precautious:  
          Keep it beyond of children.  
          GHS P102
- S 7      Keep container closed tightly.  
          GHS P233

15.2.5 Special marking of certain preparations - Not applicable

15.2.6 Authorisation and/or use restrictions -Not applicable

### 15.3 EU Regulations

15.3.1 Information about the Limitation of ethereal organic compound's (VOC-RL) emission Directive 1999/13/EG

Not applicable

15.3.2 Other EU Regulations

### 15.4 National regulations (Germany)

#### 15.4.1 Water hazard class

Class: 1 (Self classification, precautionary)

#### 15.4.2 Technical manual air (TA-Luft)

Isn't governed by TA-Luft

TA-Luft chapter:

TA-Luft class:

#### 15.4.3 Hazardous Incident Ordinance (12. BImSchV)

Isn't governed by the Hazardous Incident Ordinance

Hazardous substances according to annex 1:

Substance's name according annex 1 with no.:

#### 15.4.4 Solvent Ordinance (31. BImSchV) Not applicable

#### 15.4.5 Restriction of employment Unknown

#### 15.4.6 Further regulations, restrictions an prohibition ordinances

## 16 FURTHER INFORMATION

### 16.1 Other current EU Directives

### 16.2 Use restrictions recommended by the manufacturer

### 16.3 R-sentences referred to in paragraph 2 and 3 (wording)

#### **16.4 Additional hints**

Abbreviations:

n. a. = nicht anwendbar = not applicable

n. g. = nicht geprüft = not tested

#### **16.5 Changes versus the last version**

Adaption according to the EG enactment No. 1272/2008 (GHS-Verordnung)

#### **16.6 Issuing division's data sheet**

Product security (Phone +49 (0) 231 / 5342259) All information is based on the current knowledge. It is no assurance of any product characteristics and doesn't constitute a contractual legal relationship.